FOX 500 DA6 Transmitter/Distribution Amplifier

Description

The Extron FOX 500 DA6 are two models of ultra-high performance 1-input, 6-output transmitting distribution amplifers that send RGB video, audio, and RS-232 serial communications (such as for projector control) across long distances over fiber optic cables. The two models are:

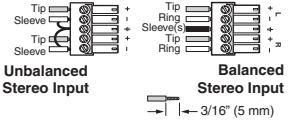
- **FOX 500 DA6 MM** — A multimode (up to 150 m [492']) DA
- **FOX 500 DA6 SM** — A singlemode (very long distance - up to 30 km [18.75 miles]) DA

The FOX 500 DA6 provides optical outputs to up to six FOX 500 (RGB) Rx and/or FOX 500 DVI Rx receivers. The digital visual interface (DVI) receiver converts the proprietary signal received on the optical cable to DVI video. The connected receivers can be a mix of RGB and DVI receivers. The transmission mode version (multimode or singlemode) of the DA and all receivers must match.

The rack mountable FOX 500 DA6 units have internal power supplies that can accept 100-240 VAC, at 50 to 60 Hz.

Installation & Cabling

1. If desired, affix the included rack mounting brackets to the DA and mount the unit in a standard 19" rack.
2. Connect a VGA to UXGA source to the DA; **either** to the RGB Input 15-pin HD connector **or** to the RGB Input BNC connectors. See the drawing at right to connect video to the BNC connectors.
3. If desired, connect a local monitor to the DA's Buffered Loop-Through 15-pin HD connector.
4. Connect a balanced or unbalanced stereo or mono audio input to the DA; **either** to the Audio Inputs 3.5 mm mini jack **or** to the Audio Inputs 5-pole, 3.5 mm captive screw connector. See the drawing at right to wire a captive screw connector for the appropriate input type.



5. If you want the FOX 500 DA6 to pass serial command signals, such as serial control of projectors for example, connect the host device to the DA and the slave device to the receivers via three poles of the RS-232 Over Fiber captive screw connectors on all units.

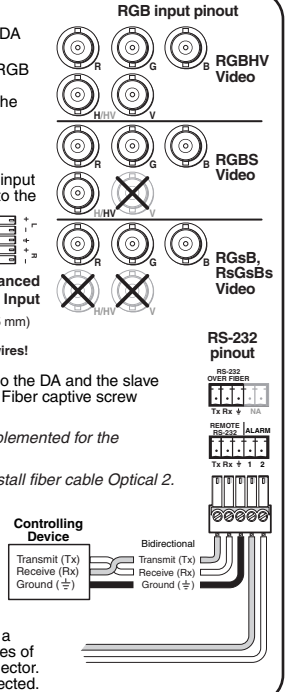
NOTE *The serial return channel (receiver-to-DA) is only implemented for the receiver connected to output 1.*

NOTE *For RS-232 responses (receiver-to-DA), you must install fiber cable Optical 2.*

6. For serial control of the DA and connected receivers, connect a host device to either the DA **or** the receiver connected to DA output 1 via three poles of the Remote RS-232/Alarm captive screw connectors.

NOTE *Alternatively, you can connect to either unit's front panel Configuration port.*

7. For remote monitoring of the status of fiber optic link Optical 2 from the receiver connected to output 1, connect a locally constructed or obtained device to the two Alarm poles of the DA's Remote RS-232/Alarm 5-pole captive screw connector. The two pins are shorted together when no light link is detected.



Installation & Cabling (Continued)

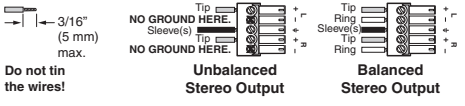
8. Connect 1 or 2 fiber optic cables between the DA and each receiver. See the figure at right, note that the cables cross.

NOTE *Optical 2 is functional **only** for output 1.*

NOTE *Ensure that you use the proper fiber cable for your transmitter/receiver pair. Typically, singlemode fiber has a yellow jacket and multimode cable has an orange jacket.*

NOTE *Only one fiber optic cable, Optical 1, is required for video, audio, and serial command transmission. But, if you connect only one fiber optic cable, you will not receive RS-232 reports from the controlled device, and there will be reduced front panel and RS-232 command functionality. To receive responses from the controlled device and for full functionality, you need to install both fiber optic cables.*

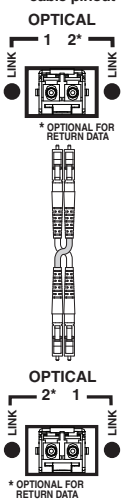
9. **If desired**, connect a control system or computer to the front panel Configuration (RS-232) port. Use an optional 9-pin D to 2.5 mm mini jack TRS RS-232 cable, part #**70-335-01**.
10. **On each receiver**, connect 1 or 2 RGBHV, RGBS, RGsB, or RsGsBs video displays.
11. **On each receiver**, connect 1 or 2 balanced or unbalanced stereo or mono audio devices to the receiver; to the Audio Outputs 3.5 mm mini jack **and/or** to the Audio Outputs 5-pole, 3.5 mm captive screw connector. See below to wire the **receiver's** captive screw connector for the appropriate output type.



CAUTION *Connect the sleeve to ground (Gnd). Connecting the sleeve to a negative (-) terminal will damage the audio output circuits.*

12. Connect power to all units.

Fiber optic cable pinout



Front Panel Indications

Power LED — Indicates that power is connected to that unit.

RGB, Audio, Link 1, and Link 2 LEDs — Indicate that the associated input is detected.

NOTE *The DA detects RGB, Audio, and Link 2 and reports their status to all receivers. The receiver connected to DA output 1 detects Link 1 and reports its status to the DA (if the Optical 2 cable is installed).*

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